

Summary of NRDS2 Concept Notes: Rwanda

	Title, Location, Period	Overall Objective (Goal)	Specific Objectives	Components and Activities (excluding Project Management Component)	Budget (USD)
1	<p>Reclamation of marshlands for sustainable rice production in Rwanda</p> <p>- A total of 3,016 Ha which includes 646 Ha in Budubi, 1,340 Ha in Agatobwe, 530 Ha in Muhanga, 500 Ha in Bugarama downstream, where prefeasibility studies are already conducted</p> <p>- 5 years</p>	To increase domestic rice production in Rwanda	To expand area under rice cultivation through development of new marshlands	<p>Feasibility Studies</p> <ol style="list-style-type: none"> 1. Bid tender for conducting feasibility studies on sustainable rice farming in the identified marshlands 2. Assess the socio-economic, environmental, soil and hydrological aspects of the sustainability in the marshlands <p>Civil Works</p> <ol style="list-style-type: none"> 1. Chart a detailed design for reclamation of the marshlands in which feasibility is established 2. Construct catchment areas, irrigation network and land-levelling in the marshlands <p>Mobilization of farmers around the marshlands</p> <ol style="list-style-type: none"> 1. Conduct legal allotment of plots in the marshlands in consultation with the local communities and local administration 2. Organize training on rice production for farmers, cooperative management, and extension agents <p>Development of the rice value chain in the reclaimed marshlands</p> <ol style="list-style-type: none"> 1. Establish linkages between private suppliers of inputs (seeds, fertilizers, agro-chemicals, and finance) and farmers and cooperatives 2. Establish linkages between farmers/cooperatives and private marketing enterprises (traders/millers) 	<p>45,240,000</p> <p>- Grant - Loan - Tech Coop/ Assist - National budget - Private sector</p>
2	<p>Prefeasibility studies on expansion of area under rice cultivation in Rwanda</p> <p>- A total of 2,097 Ha (Rwansoro, Kavura, Mwogo, Rutobo, Gipfuna, and 9 other areas)</p> <p>- 3 years</p>	To increase domestic rice production in Rwanda	To explore the potential for expansion of marshland area under rice cultivation	<p>Collection of information</p> <ol style="list-style-type: none"> 1. Collect information on seasonal rainfall, mean temperature, hydraulic properties of the area 2. Assess soil erosion, drainage, crop calendar, current agriculture and non-agriculture use of water in the marshlands and the hillsides associated with marshlands 3. Conduct surveys/interviews with the farming and non-farming communities around the marshlands <p>Determining the suitability of rice farming in marshlands</p> <ol style="list-style-type: none"> 1. Conduct trials on rice cultivation to assess the agronomic performance of major rice varieties 2. Assess the competitive advantages of rice cultivation over other agriculture commodities 	<p>600,000</p> <p>- Grant - Tech Coop/Assist - National budget</p>

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3	<p>Increasing food production in Rwanda through improved management of catchment areas of the rice-growing marshlands</p> <p>- Muvumba-2 and 3, Rwangingo, Mukunguri, Gashora, Kabuye</p> <p>- 4 years</p>	To improve the climatic resilience and sustainability of rice production by smallholder farmers in Rwanda	To improve the availability, distribution, and usage of water for rice cultivation in the marshlands	<p>Assessment of the needs of rehabilitation activities that are required in the catchment areas</p> <ol style="list-style-type: none"> 1. Conduct survey on the current status of the catchment areas 2. Identify the civil works and agro-forestation that are required for improving the water storage and distribution from the catchment areas <p>Civil works</p> <ol style="list-style-type: none"> 1. De-silting the floors of the catchment and dams/reservoirs 2. Terracing of steep slopes of the catchment areas 3. Repair/Reinforce of existing canals and construct new, additional canals in the catchment areas 4. Plant cover grass and other appropriate shrubs/trees around the catchment areas and the buffer zones 	<p>7,655,000</p> <p>- Grant - National budget</p>
4.	<p>Improving productivity and marketability of rice in Rwanda through mechanization</p> <p>- RAB's Center of Excellence on Mechanization (Rubirizi), All rice growing marshlands</p> <p>- 3 years</p>	To enhance grain quality and reduce yield losses in smallholder rice farms through promotion of appropriate mechanization	<p>Improve the technical and financial appropriateness of machineries used by smallholder rice farmers for harvesting and post harvesting activities</p> <p>Promote the adoption of appropriate machineries for harvesting and post harvesting tasks</p>	<p>Research on the suitability of machineries for harvest and postharvest</p> <ol style="list-style-type: none"> 1. Evaluation of available machineries and technologies (harvesting, threshing, drying, winnowing, cleaning, and packaging) for their technical and economic viabilities 2. Test and fine-tune the appropriateness of the candidate machineries for scaling-up and scaling-out through linkages with local manufacturers, suppliers, and artisans <p>Promotion of appropriate machineries for harvest and postharvest</p> <ol style="list-style-type: none"> 1. Develop and disseminate information and user manuals using multi-media (radio, television, newspaper, pamphlets) 2. Conduct demonstrations on the usage and maintenance of machineries in collaboration with private enterprises (manufacturers, suppliers, spare-part distributors and hiring service providers) 3. Organize training for farmers, youth, women, hiring service providers and artisans 4. Organize trade fairs and field-days for promoting the marketing of the appropriate machineries 	<p>6,000,000</p> <p>- Grant - Loan - Tech Coop/Assist - National budget - Private sector</p>
5	<p>Sustainable and market-driven rice production systems in Rwanda</p> <p>- Nation-wide</p>	To increase the marketability and sustainability of locally	To enhance the competitiveness features (price and quality) of locally produced rice	<p>Assessment of Rice Value Chain</p> <ol style="list-style-type: none"> 1. Conduct analyses on the production, postharvest handling, trading, processing, marketing and consumerism to understand the challenges in improving the market competitiveness of locally produced rice in Rwanda <p>Extension on improvements in grain quality</p>	<p>5,474,500</p> <p>- Grant - Tech Coop/Assist - National budget - Private sector</p>

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	- 3 years	produced rice in Rwanda		<p>1. Build skills and knowledge of farmers on good agronomic practices (GAPs), reducing the postharvest losses and improving the quality of grains through training and dissemination of information</p> <p>2. Build capacity of Cooperatives and other farmer organizations on the importance of adoption of GAPs and postharvest handling techniques on market competitiveness of local rice</p> <p>3. Facilitate infrastructures (such as drying yards, mobile driers, storage warehouses) to farmers, cooperatives, and millers through private or public-private partnership arrangements</p> <p>Strengthening of rice seed systems</p> <p>1. Increase the supply of early generation seeds (breeder, foundation) of high yielding varieties through research and extension services that are oriented towards substantial increases in on-farm productivity and smallholder profitability</p> <p>2. Review and enforce regulations on the quality of production and supply of rice seeds</p> <p>3. Provide training and back-stopping services to certified rice seed producers on seed quality control measures</p> <p>Cost-cutting policy actions</p> <p>1. Identify tangible and time-bound policy instrument(s) that will reduce the costs of farm inputs and farm gate prices of locally produced rice</p> <p>2. Identify and suggest policies that will lead to reduction or elimination of various inefficiencies on usage of inputs (including land)</p> <p>3. Collect data on local, regional and international market prices of milled rice for consultations in setting the minimal farm gate price for locally produced rice</p> <p>4. Improve enforcement of regulations on grades and standards of milled rice marketed in Rwanda</p> <p>Promotion of local rice</p> <p>1. Assess the rice features, types and varieties that could be promoted through branding</p> <p>2. Provide incentives for branding by the local rice millers</p> <p>3. Promote adoption of machineries for packing and labelling of locally produced rice</p> <p>To de-risk the marketing of locally produced rice from trade-related issues</p> <p>Institutional strengthening for improving rice trade</p> <p>1. Set up a National Rice Stakeholder Forum (NRSF) that could raise various trade related issues/observations and report to the concerned line Ministries for appropriate policy actions</p>	

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				2. Organize periodic NRSF meetings and create opportunities to the stakeholders for discussions on national, regional and international rice trade in Rwanda	
6	<p>Rehabilitation of marshland irrigation infrastructures in Rwanda for increased rice production</p> <p>- Muvumba-2 and 3 (400 Ha), Rwangingo (300 Ha), Mukunguri (400 Ha), Gashora (300 Ha), Kabuye (300 Ha)</p> <p>- 4 years</p>	To enhance the climatic resilience of smallholder rice farming through improved water management infrastructures	To improve the water management and water use efficiency by rehabilitating the irrigation infrastructures in marshlands	<p>Assessment of the details of the needs for rehabilitation in the selected marshlands</p> <ol style="list-style-type: none"> 1. Survey the physical conditions of the infrastructures that are existing in marshlands 2. Identify the extent of civil works that are needed for the improvement of the existing and additional infrastructures in the marshlands 3. Bidding for contractors who could carry out the necessary civil works <p>Civil works</p> <ol style="list-style-type: none"> 1. Construction of necessary head works 2. Construction of water harvesting structures in the marshlands 3. Lining of water canals in the marshlands 4. Improvement of drainage facilities 5. Levelling works for selected plots/areas 	<p>13,605,000</p> <p>- Grant - National budget</p>
7	<p>Increasing total factor productivity through promotion of mechanization in smallholder rice farms in Rwanda</p> <p>- Rwanda Agriculture Board (RAB) Stations at Rubona, Nyagatare, Ngoma, Ntendezi, Rubirizi</p> <p>- 3 years</p>	To increase rice production and total factor productivity for smallholder farmers in Rwanda	<p>To strengthen the capacities of rice farm mechanization related services at national agricultural institutions around the rice growing marshlands</p> <p>To promote mechanization in smallholder rice farms</p>	<p>Procurement of machineries, Implements and Spare-parts</p> <ol style="list-style-type: none"> 1. Procurement of appropriate machineries for transplanting, harvesting, threshing, winnowing, and drying <p>Promotion of usage of rice farm machineries</p> <ol style="list-style-type: none"> 1. Promote the usage of machineries through demonstrations in marshlands around the selected RAB stations 2. Prepare and distribute information on usage and benefits of the machineries through media 3. Provide training for youth groups, cooperatives, and other potential mechanization service providers 	<p>5,000,000</p> <p>- Grant - National budget</p>